

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Hilltop Addition, Sewer Extension, Greybull, WY

ARCHITECT OR ENGINEER: LaVern Nelson, P.E. - John W. Donnell and Associates,
P.O. Box 13, Worland, WY 82401

WATER QUALITY DIVISION REFERENCE NUMBER: 77-250

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.

DATE OF REVIEW: 7-18-77

ACTION: CONSTRUCTION IS NOT AUTHORIZED

COMMENTS:

1. Upgrade sewer cross over specifications on pg. 3.5 (mark out "above or").
2. Lamping or grade and alignment specifications shall be included.
3. Furnish existing 8 inch sewer line hydraulic design information.
4. Minimum grade for 8 inch diameter sewer lines are .4 feet per 100 feet.

PERMIT TO CONSTRUCT

mailed-
10/19/28

☒ New
☐ Renewal
☐ Modified

Permit No. 77-251RRR

Kenmerer Water Treatment Plant
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Kenmerer
(Last) (First) (Middle)
700 Cedar Avenue
(Street or P.O. Box)
Kenmerer Lincoln WY 83101
(City) (County) (State)

to construct, install, or modify a backwash settling pond location
facility located in Section 12, T21N; R116W
(Legal Description)

in the County of Lincoln, in the State of
Wyoming. This permit shall be effective for a period of two years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Gale
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

October 10, 1978

Date of Issuance

PERMIT TO CONSTRUCT

☐ New
☐ Renewal
☒ Modified

Permit No. 77-251RR

Kemmerer Water Treatment Plant
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Kemmerer
(Last) (First) (Middle)
700 Cedar Avenue
(Street or P.O. Box)
Kemmerer Lincoln Wyoming 83101
(City) (County) (State)

to construct, install, or modify a Water Treatment Plant
facility located in Section 12, T21N, R116W
(Legal Description)

in the County of Lincoln, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Ojala
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

February 17, 1978

Date of Issuance
cc: Johnson-Fermelia & Crank, Inc., ATTN: Dale Crank, P.E., P. O. Box 631,
Kemmerer, Wyoming 83101

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-251R

Kemmerer Water Treatment Plant
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Town of Kemmerer</u>		
(Last)	(First)	(Middle)
<u>700 Cedar Avenue</u>		
	(Street or P.O. Box)	
<u>Kemmerer</u>	<u>Lincoln</u>	<u>Wyoming 83101</u>
(City)	(County)	(State)

to construct, install, or modify a Water Treatment Plant
facility located in Section 12, T21N, R116W
(Legal Description)

in the County of Lincoln, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Garland
Administrator
Water Quality Division

Robert E. Linder
Director
Wyoming Dept. of Environmental Quality

August 30, 1977

Date of Issuance
cc: Johnson-Fermelia and Crank, Inc., P.O. Box 631, Kemmerer, WY 83101

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

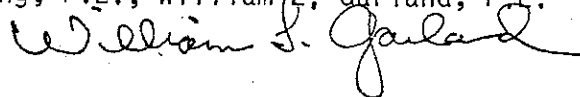
PROJECT: Town of Kemmerer, Water Treatment Plant Expansion, Kemmerer, WY,
Lincoln Co.

ARCHITECT OR ENGINEER: Dale Crank, P.E. - Johnson-Fermelia and Crank, Inc.,
P.O. Box 631, Kemmerer, WY 83101

WATER QUALITY DIVISION REFERENCE NUMBER: 77-251

REVIEWING ENGINEER: David W. Hill, Don Armstrong, P.E., William L. Garland, P.E.

DATE OF REVIEW: August 4, 1977



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

- COMMENTS:
- 1) Please have owner or owners designated representative fill out and submit two copies "Application for Permit to Construct, Install....."
 - 2) A U.S. Army Corps of Engineers Dredge and Fill Permit may be needed for the intake structure work. Please contact the Corps. State certification may also be needed for this work. (Enclosed).
 - 3) The outside door (#4) near the chlorination room should swing the other direction. This is a precaution which is needed to prevent an operator from walking into the chlorination room exhaust flume in an accident.
 - 4) A chlorine leak detector is needed in the chlorination room.
 - 5) Where will the respiratory protection equipment be stored? Will a self contained unit be available?
 - 6) What is the capacity of the chlorination room exhaust fan. At least one air change per minute is required.
 - 7) Where will the spare chlorination cylinders be stored?
 - 8) The cast iron pipe and fittings, ductile iron pipe and steel pipe should conform to the latest editions of the various AWWA or ANSI Standards.
 - 9) Will there be sufficient room for a tractor or forklift between the locker room and the backwash suction pump and piping? We would encourage another garage door in the north part of the building. The backwash piping should be protected from possible vehicle accidents.

Town of Kemmerer, Water Treatment Plant Expansion, Kemmerer, WY,
Lincoln Co.

77-251

- 10) We highly recommend that a coarse bar screen precede the $\frac{1}{4}$ inch mesh screen.
- 11) At least two $\frac{1}{4}$ inch mesh screens are needed. One can be in use while the other is being cleaned.
- 12) How will the wet well sump at the intake structure be cleaned.
- 13) The manhole to the valve pit at the clearwell should have a cover which overlaps the framed opening and extends down around the side at least two inches.
- 14) Please supply details of the backwash water settling pond effluent line at the river. Steps should be taken to prevent erosion at this outfall.
- 15) Please state the proposed weir loadings for the settling basins.
- 16) We assume that this expansion is designed at the same loadings as the present plant. Has the present plant been able to consistently produce a water with a turbidity of less than 1 JTU as required by P.L. 93-523?

DWH/jo
Enclosures

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

Permit No. 77-252R

☐ Modified

Arnold Trailer Court

(Name of Facility)

This permit hereby authorizes the applicant:

Arnold

Tom

(Last)

(First)

(Middle)

c/o of Plains Engineering
P.O. Box 727

(Street or P.O. Box)

Newcastle

Weston

Wyoming 82701

(City)

(County)

(State)

to construct, install, or modify a Sewage Collection

facility located in Section 30, T45N, R61W

(Legal Description)

in the County of Weston, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Chelms

Administrator
Water Quality Division

Robert E. Lundin

Director
Wyoming Dept. of Environmental Quality

July 27, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-253, Ref. 76-347

Resubdivision of Tract E-Wagensen Addition
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Memanamen</u>	<u>James</u>	
(Last)	(First)	(Middle)
<u>408 North Brooks Avenue</u>		
(Street or P.O. Box)		
<u>Gillette</u>	<u>Campbell</u>	<u>Wyoming 82716</u>
(City)	(County)	(State)

to construct, install, or modify a Water Distribution
facility located in the City of Gillette
(Legal Description)

in the County of Campbell, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Chaloud
Administrator
Water Quality Division

Robert E. Austin
Director
Wyoming Dept. of Environmental Quality

August 4, 1977

Date of Issuance

cc: Plains Engineering, P.O. Box 2020, Gillette, Wyoming 82716

REVIEW OF PLANS AND SPECIFICATIONS

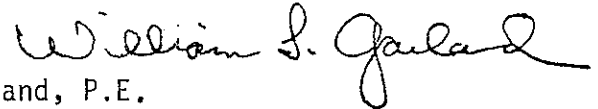
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Halliburton Services, Evaporation System and Septic System,
Evanston, WY, Uinta Co.

ARCHITECT OR ENGINEER: John A. Proffit, P.E. - Uinta Engineering and Surveying,
P.O. Box 746, Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 77-254

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E.



DATE OF REVIEW: August 5, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

- COMMENTS:
- 1) Please have owner or owners designated representative fill out and submit two copies "Application for Permit to Construct, Install,"
 - 2) Provide fencing details for fence around evaporation pit.
 - 3) Please provide details of the oil trap and waste pit.
 - 4) Please submit septic tank details.
 - 5) Design data for the septic system is needed (i.e. - design population, design flow).

DWH/jo

Enclosures - "Application for Permit to Construct, Install,"

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-254R

Halliburton Services

(Name of Facility)

This permit hereby authorizes the applicant:

Halliburton Services

(Last)

(First)

(Middle)

P.O. Box 805

(Street or P.O. Box)

Evanston

Uinta

Wyoming 82930

(City)

(County)

(State)

to construct, install, or modify a Sanitary Waste System and Truck Wash Wastewater
facility located in Section 23, T15N, R120W
(Legal Description)

in the County of Uinta, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Chas. D.
Administrator
Water Quality Division

Robert E. Lordin
Director
Wyoming Dept. of Environmental Quality

October 24, 1977

Date of Issuance

cc: Uinta Engineering and Surveying, P.O. Box 746, Evanston, WY 82930
Attention: John Proffit, P.E.

MEMORANDUM

TO: The File

FROM: Al Berreth *ajb*

SUBJECT: 77-255R/Cedar Cliff Estates

DATE: August 18, 1981

On June 3, 1981, a visit to Cedar Cliff Estates was made to determine the possibility of a violation of Wyoming Water Quality Rules and Regulations. A search of the records indicated that the above referenced permit had been issued. The inspection revealed that the subdivision had been constructed as per the permit except for the possibility of fire hydrants. A letter was written to Mr. Rapp and his response seemed adequate.

AB/ch
8/18/81

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Cedar Cliff Estates, Water System, Sweetwater County, Wyoming

ARCHITECT OR ENGINEER: James C. Kaiserman - Genge/Call Engineering, Inc.
2211 South 300 West, Salt Lake City,
Utah 84115
WATER QUALITY DIVISION REFERENCE NUMBER: 77-255

REVIEWING ENGINEER: David W. Hill, Don Armstrong, P.E., William L. Garland, P.E.

DATE OF REVIEW: August 10, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

- COMMENTS:
- 1) Please have owner or owners designated representative fill out and submit two copies "Application for Permit to Construct, Install....."
 - 2) Two copies of all plans and specifications need to be submitted to us. One set will be returned to you upon our authorization of the project.
 - 3) Complete detailed specifications are needed. If the Flaming Gorge Water System, Inc. specifications are to be used, please refer to this on the set of plans.
 - 4) Four inch lines are the minimum size allowed. This includes lines into cul-de-sacs.
 - 5) All PVC pipe must meet AWWA C900-75.
 - 6) Disinfection of the distribution system should proceed according to AWWA C601-68. Include this in the specifications.
 - 7) All gate valves shall meet AWWA C500-71. Include this in the specifications.
 - 8) The fire hydrants used shall meet AWWA Standards. Include this in the specifications or addendum.
 - 9) Stop and waste valves are not allowed in the blow-offs.
 - 10) A "Permit to Construct" will not be issued until a the proper authorization is obtained from the Public Service Commission.

DWH/jo
Enclosure

cc: William M. Briggs, Flaming Gorge Water System, Inc., Manial, Utah 84046

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-255R

Flaming Gorge Water System, Inc. - Cedar Cliff Estates
(Name of Facility)

This permit hereby authorizes the applicant:

Briggs	William	M.
(Last)	(First)	(Middle)
c/o Genge/Call Engineering, Inc.		
2211 So. 300 W.		
(Street or P.O. Box)		
Salt Lake City		Utah 84115
(City)	(County)	(State)

to construct, install, or modify a Water System
facility located in Section 21 & 28, T12N, R109W
(Legal Description)

in the County of Sweetwater, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Gale
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

September 15, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-256

South Worland Water Users Corp.
(Name of Facility)

This permit hereby authorizes the applicant:

South Worland Water Users Corp.
(Last) (First) (Middle)
c/o John W. Donnell
P.O. Box 13
(Street or P.O. Box)
Worland Washakie Wyoming 82401
(City) (County) (State)

to construct, install, or modify a Water System Extension
facility located in Tr. 127B, SE $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 1, T46N, R93W
(Legal Description)

in the County of Washakie, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Gulea
Administrator
Water Quality Division

Robert E. Landon
Director
Wyoming Dept. of Environmental Quality

August 4, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

Permit No. 77-257

☐ Modified

S & J #1 & #2 Enterprises

(Name of Facility)

This permit hereby authorizes the applicant:

Sasser

(Last)

Stephen

(First)

F.

(Middle)

513 N. Lennox

(Street or P.O. Box)

Casper

(City)

Natrona

(County)

Wyoming 82601

(State)

to construct, install, or modify a Septic

facility located in Section 6, T33N, R79W

(Legal Description)

in the County of Natrona, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

cc: Nix Anderson

Worthington, Lenhart and Carpenter, 632 S. David, Casper, WY 82601

Authorized by:



Administrator
Water Quality Division



Director
Wyoming Dept. of Environmental Quality

August 11, 1977

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. _____

77-258

Becker Lease Bldg., B & B Subdivision lot #7
(Name of Facility)

This permit hereby authorizes the applicant:

Sasser
(Last)

Stephen
(First)

F.
(Middle)

513 N. Lennox

(Street or P.O. Box)

Casper
(City)

Natrona
(County)

Wyoming 82601
(State)

to construct, install, or modify a Septic

facility located in Section 6, T37W, R79W

(Legal Description)

in the County of Natrona, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

cc: Nix Anderson

Worthington, Lenhart and Carpenter, Inc., 632 S. David, Casper, WY 82601

Authorized by:

William L. Ireland
Administrator
Water Quality Division

Robert E. Anderson
Director
Wyoming Dept. of Environmental Quality

August 11, 1977

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-259

Asbell Addition

(Name of Facility)

This permit hereby authorizes the applicant:

City of Casper

(Last)

(First)

(Middle)

c/o Casper Board of Public Utilities

136 W. 8th Street

(Street or P.O. Box)

Casper

Natrona

Wyoming 82601

(City)

(County)

(State)

to construct, install, or modify a Sewer Line Relocation

facility located in the City of Casper

(Legal Description)

in the County of Natrona, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

cc: Nix Anderson

Authorized by:

William L. Chelms
Administrator
Water Quality Division

Robert E. Andie
Director
Wyoming Dept. of Environmental Quality

August 11, 1977

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Butcher Subdivision, City of Gillette

ARCHITECT OR ENGINEER: R. H. Krum, C.S.S.A., 510 S. Gillette Ave.,
Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 77-260

REVIEWING ENGINEER: Dan H. Kim, William L. Garland, P.E.

DATE OF REVIEW: August 3, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

- COMMENTS:
- 1) Should provide alignment specifications, specifications concerning excessive side fill pressures and ovalation of the pipe. Specifications on placing the pipe, relieving the bells, placing the backfill material, etc.
 - 2) Should provide material specifications, i.e. valves, etc.
 - 3) Provide exfiltration specifications.
 - 4) Infiltration and exfiltration tests should be for each section of pipe. i.e. manhole to manhole.
 - 5) Sewer PVC pipe should meet ASTM 3033 or 3034 specifications.
 - 6) Water line and sewer line crossing specifications should conform to Section 15, Chapter III Regulations. Sewer lines as shown would require the sewer service taps to be made with a pipe that would meet water line specifications. If the line is to be constructed as shown. Please indicate the sewer taps that would require the special conditions.
 - 7) What is carefully compacted backfill?
 - 8) This cannot be considered a final review.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Butcher Subdivision - Gillette, Wyoming

ARCHITECT OR ENGINEER: R. H. Krum, C.S.S.A., 510 S. Gillette Ave., Gillette,
WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 77-260R

REVIEWING ENGINEER: Dan H. Kim, William L. Garland, P.E.

DATE OF REVIEW: 9-15-77

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. PVC water pipe specifications call for a pipe with SDR 21, 200 psi. This is not AWWA C-900 designated pipe.
2. The specifications of water main sterilization seem to conflict with AWWA C601-68 specifications. AWWA specifications require to contain no less than 25 mg/l chlorine throughout the length of the main after 24 hr. period.
3. ASTM designation D3034 - 73 for PVC sewer pipe is outdated.
4. Wye and tee branches are concurrent in your specifications. Only Wye branches are acceptable.
5. Your specifications indicate the waterlines will be 5' below ground and measured depth of sewer line is 5 feet or less. Do sewers always cross under waterlines? Will 18" vertical separation for crossing be obtained between sewer lines and water service lines serving lots 2, 3 & 4? Your typical water service connection detail drawing also calls for the depth to be at least 5 feet.
6. Typical cleanout details should be provided.
7. Should provide specifications concerning excessive side fill pressures and ovalation of the pipe and concerning relieving the bells.
8. This cannot be considered a final review.

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-260RR

Butcher Subdivision
(Name of Facility)

This permit hereby authorizes the applicant:

Butcher	Arley	
(Last)	(First)	(Middle)
c/o C.S.S.A.		
510 S. Gillette Ave.		
	(Street or P.O. Box)	
Gillette	Campbell	Wyoming 82716
(City)	(County)	(State)

to construct, install, or modify a Water Distribution & Sewer Collection
facility located in Section 21, T50N, R72W
(Legal Description)

in the County of Campbell, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William R. Garland
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

October 13, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-261

Drilling Mud, Inc.
(Name of Facility)

This permit hereby authorizes the applicant:

Reid John A.
(Last) (First) (Middle)

P.O. Box 2831

(Street or P.O. Box)

Casper Natrona Wyoming 82601
(City) (County) (State)

to construct, install, or modify a Wastewater Disposal

facility located in Section 20, T34N, R79W

(Legal Description)

in the County of Natrona, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

cc: Nix Anderson

Western Construction Company, Box 930, Casper, WY 82601

Authorized by:

William J. Galt
Administrator
Water Quality Division

Robert E. Anderson
Director
Wyoming Dept. of Environmental Quality

August 11, 1977

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-262

Husky Oil Company

(Name of Facility)

This permit hereby authorizes the applicant:

Husky Oil Company

(Last)

(First)

(Middle)

404 N. 31st

(Street or P.O. Box)

Billings

(City)

Montana

(County)

(State)

to construct, install, or modify a Wastewater Disposal

facility located in Tract 50, T53N, R101W

(Legal Description)

in the County of Park, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Garland

Administrator
Water Quality Division

Robert E. Lundin

Director
Wyoming Dept. of Environmental Quality

September 14, 1977

Date of Issuance

cc: Engineering Associates, P.O. Box 1539, Cody, Wyoming 82414

PERMIT TO CONSTRUCT

☒/

New

☐/

Renewal

☐/

Modified

Permit No. 77-263

Glen Bennett Trailer Park

(Name of Facility)

This permit hereby authorizes the applicant:

Bennett

(Last)

Glen

(First)

R.

(Middle)

2724 East 10th

(Street or P.O. Box)

Casper

(City)

Natrona

(County)

Wyoming 82601

(State)

to construct, install, or modify a Septic Tank

facility located in Section 29, T34N, R79W

(Legal Description)

in the County of Natrona, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

cc: Nix Anderson

Harry O. Patterson, P.E., 437 Spruce, Casper, Wyoming 82601

Wardwell Water & Sewer,

Box 728, Mills, WY 82644

Authorized by:

William J. Chelone
Administrator
Water Quality Division

Robert E. Lusk
Director
Wyoming Dept. of Environmental Quality

August 12, 1977

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

Permit No. 77-264

☐ Modified

Branding Iron Supper Club

(Name of Facility)

This permit hereby authorizes the applicant:

Katsimanis Nick
(Last) (First) (Middle)
c/o E. C. Lenhart, P.E.
632 S. David
(Street or P.O. Box)

Casper Natrona Wyoming 82601
(City) (County) (State)

to construct, install, or modify a Sewage Disposal
facility located in Section 28, T33N, R80W
(Legal Description)

in the County of Natrona, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

NOTE: ENSURE BED BOTTOM IS LEVEL.

Authorized by:

William P. Chaloud
Administrator
Water Quality Division

Robert E. Schindler
Director
Wyoming Dept. of Environmental Quality

August 2, 1977

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: North Fork Acres, Domestic Water System, Sec. 33, T34N, R100W,
Fremont County, Wyoming

ARCHITECT OR ENGINEER: J. C. Cometto, P.E., 340 Hedges, Lander, Wyoming 82520

WATER QUALITY DIVISION REFERENCE NUMBER: 77-265

William L. Garland

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E.

DATE OF REVIEW: August 8, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

- COMMENTS:
- 1) Please have owner or owners designated representative fill out and submit two copies "Application for Permit to Construct, Install....."
 - 2) Please submit a chemical and biological analysis of the spring water.
 - 3) Upon completion of construction and the starting of hookups, North Fork Acres must get on our monthly bacteriological sampling program. Please contact Mr. Robert Pinther of this office at this time.
 - 4) Please submit complete design criteria (i.e. - population, per capita flow, peak flow, reservoir size, etc).

SPRING

- 5) Please indicate of what material the perforated pipe is made of. If plastic, it must be NSF approved.
- 6) Please submit contour line drawing for area around spring. A diversion ditch for surface runoff around the spring area is needed.
- 7) A fence is needed around the spring area. Please provide details.
- 8) Provide overflow details from the spring reservoir. The overflow end must be screened and must be at least two feet above the spill line of the receiving ditch.
- 9) The reservoir must have a drain. Supply details. The same criteria as in 7 above applies to the reservoir drain.

North Fork Acres, Domestic Water System, Sec. 33, T34N, R100W
Mont County, Wyoming

77-265

- 10) Details are needed of the manhole entrance to the reservoir.
- 11) Spring disinfection procedures are needed.

Water Lines

- 12) All main lines in a subdivision with permanent housing must be a 4 inch minimum.
- 13) All four inch or larger PVC pipe must meet AWWA C900-75. PVC pipe Class 160 psi, ASTM D-2241 does not meet this standard.
- 14) Please submit thrust blocking details.
- 15) Submit flushing valve details.
- 16) Please show locations of all gate valves on the water system.
- 17) A compaction specification is needed for the backfilling criteria.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: North Fork Acres, Domestic Water System, Sec. 33, T34N, R100W,
Fremont County, Wyoming

ARCHITECT OR ENGINEER: John Cometto, P.E. - 340 Hedges, Lander, Wyoming 82520

WATER QUALITY DIVISION REFERENCE NUMBER: 77-265

REVIEWING ENGINEER: David W. Hill, Don Armstrong, P.E., William L. Garland, P.E.

DATE OF REVIEW: August 29, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS: SPRING - Storage Reservoir

- 1) The plastic 10 ml. liners shall be NSF approved.
- 2) The foam insulation cannot be used in the actual spring area. It may be used over the solid pipe from the spring to the storage reservoir.
- 3) Spring disinfection procedures are needed.
- 4) The surface water drain over the spring area must have a end which is screened and discharges at least two feet above the spill line of the receiving ditch.
- 5) Please enclose manufacturers details of chlorinator.
- 6) Thirty minutes contact time with chlorine must be provided for proper disinfection of groundwater. Will This be provided?
- 7) Please indicate size of hydropneumatic tanks and enclose manufacturers information.
- 8) The manhole to the reservoir must be framed at least four inches and preferably six inches above the floor. The manhole must be fitted with a solid watertight cover which overlaps the framed opening and extends down around the frame at least two inches. It should also be hinged and locked.
- 9) The reservoir vent must be at least two to three foot above the ground.
- 10) Details of the overflow from the reservoir are needed. The overflow end must be screened and must be at least two feet above the spill line of the receiving ditch.

North Fork Acres, Domestic Water System, Sec. 33, T34N, R100W,
Fremont County, Wyoming

77-265

- 11) The reservoir must have a drain. The drain line must meet the same criteria as above.

WATER DISTRIBUTION SYSTEM

- 12) The drain lines from the flushing valves shall terminate at least one foot above the ground level. It shall terminate in a 90° bend and be screened.
- 13) Thrust blocking details are still needed (size of block, strength of concrete, etc.)
- 14) Please show on the plans where gate valves are located. Valves are needed to isolate the different lines in case of breaks, etc.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

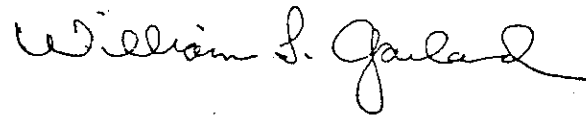
PROJECT: North Fork Acres, Domestic Water System, Section 33, T34N, R100W,
Fremont County, Wyoming

ARCHITECT OR ENGINEER: John Cometto, P.E. - 340 Hedges, Lander, Wyoming 82520

WATER QUALITY DIVISION REFERENCE NUMBER: 77-265RR

REVIEWING ENGINEER: David W. Hill, Don  Armstrong, P.E., William L. Garland, P.E.

DATE OF REVIEW: October 3, 1977



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1) The proposed manhole cover for the water storage reservoir is unacceptable. It must be fitted with a solid, watertight cover which overlaps the framed opening and extends down around the framed opening at least two inches. It should also preferably be locked and hinged.
- 2) Our calculations indicate the hydropneumatic tanks are too small. A high degree of pump cycling would take place at peak flows.
- 3) If calcium hypochlorite is to be used, we highly recommend the use of a separate water-calcium hypochlorite mixing tank. Calcium hypochlorite reacts with the hardness in the mixing water and forms a precipitate which clogs hypochlorinators. The water-calcium hypochlorite should be allowed to settle for 12-24 hrs. after which the clear liquid on top can be gently drawn off into another tank for use with the hypochlorinator.

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-265RRR

North Fork Acres Water System
(Name of Facility)

This permit hereby authorizes the applicant:

Birchfield
Chambers

Willie
Dale

L.
H.

(Last)

(First)

(Middle)

685 North 9th

(Street or P.O. Box)

Lander

Fremont

Wyoming 82520

(City)

(County)

(State)

to construct, install, or modify a Domestic Water System
facility located in Section 33, T34N, R100W
(Legal Description)

in the County of Fremont, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Chalmers
Administrator
Water Quality Division

Robert E. Anderson
Director
Wyoming Dept. of Environmental Quality

November 3, 1977

Date of Issuance

cc: John Cometto, 340 Hedges, Lander, WY 82520

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Kerr-McGee, Section 28-33 Mine Treatment System, Sec. 33, T37N,
R73W, Converse Co., WY

ARCHITECT OR ENGINEER: None Listed

WATER QUALITY DIVISION REFERENCE NUMBER: 77-266

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.

DATE OF REVIEW: 7-12-77

ACTION: CONSTRUCTION NOT AUTHORIZED

- COMMENTS:
1. Give details and specifications of outfall and overflow structures.
 2. Give material specifications for piping and treatment plant.
 3. Need the seal or signature of the designing engineer licensed to practice in the State of Wyoming.
 4. Ponds should be fenced with warning signs noting nature of the facility.
 5. Furnish design information. Will 14 hours detention time give required settling? How do you plan clean and disposal of sludge buildup? Can you bypass one pond and still obtain required settling?

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

☐ Modified

Permit No. 77-266R

Kerr McGee - Sec. 28-33 Mine Treatment System

(Name of Facility)

This permit hereby authorizes the applicant:

Kerr McGee Nuclear Corporation

(Last)

(First)

(Middle)

P.O. Box 188

(Street or P.O. Box)

Glenrock

Converse

Wyoming 82637

(City)

(County)

(State)

to construct, install, or modify a Mine Treatment

facility located in Section 33, T37N, R73W

(Legal Description)

in the County of Converse, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Quinn

Administrator

Water Quality Division

Robert E. Lundin

Director

Wyoming Dept. of Environmental Quality

September 15, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Clearview Acres Subdivision, Sewage Disposal System, Sweetwater County, Wyoming

ARCHITECT OR ENGINEER: William F. Carder, P.E. - Bennett-Carder and Associates, Inc., P.O. Box 1324, Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 77-267

REVIEWING ENGINEER: David W. Hill; Don Armstrong, P.E., William L. Garland, P.E.

DATE OF REVIEW: August 12, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

- COMMENTS: 1) Please have owner or owners designated representative fill out and submit two copies "Application for Permit to Construct, Install....."
- 2) Need complete design data for the lagoon system (i.e. - population served, design flow, detention times.)
- 3) Need compaction specifications for #3 pond embankments.
- 4) Please discuss the manner in which the discharge will be disinfected to insure compliance with the NPDES permit fecal coliform limitation.

*Department of Environmental Quality**Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

August 22, 1978

Bennett-Carder & Associates, Inc.
P. O. Box 1324
Rock Springs, WY 82901

RE: Clear View Acres Wastewater
Lagoons, 77267R

ATTN: Harry J. Kessner, P.E.

Dear Mr. Kessner,

A "Permit to Construct" has been issued to Mr. James Martin for installation of the surface aerators in cell #1 and #2. A permit will not be issued to Mr. Martin for the third cell since it is already constructed. This letter will give "tacit" authorization for the "as built" third cell.

Our calculations indicate that the system as designed will be marginally acceptable to meet the requirements of the discharge permit at best. The available detention time is only marginally acceptable for cold winter conditions. More detention time is recommended.

However, a permit has been issued and Clear View Acres will be expected to meet the requirements of the discharge permit.

If any question comes up, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script, reading "David W. Hill".

David W. Hill
Environmental Engineer

cc: James L. Martin, P. O. Box 1540, Rock Springs, WY 82901

DWH/clf

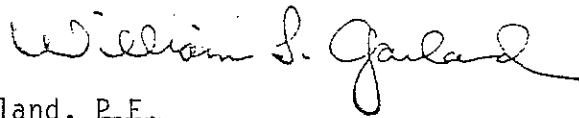
REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Casper Water Treatment Plant Extension, Casper, WY

ARCHITECT OR ENGINEER: None Listed - Black & Veach, 12075 East 45th Avenue,
Suite 333, Denver, CO 80239

WATER QUALITY DIVISION REFERENCE NUMBER: 77-268

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E. 

DATE OF REVIEW: 8-30-77

ACTION: CONSTRUCTION IS NOT AUTHORIZED

COMMENTS:

1. State law requires plans and specifications have the seal or signature of engineer licensed to practice in the State of Wyoming.
2. What is the source of water for 4" supply line to traveling screen at raw water intake?
3. Furnish basic design information on all new additions. Are existing backwash ponds and sludge ponds adequate to handle increased loading? Furnish design information listed below:
 - Discuss the various wastes from the water treatment plant, their volume, proposed treatment and points of discharge.
 - A summary shall be submitted for the proposed project, but not limited to the following:
 1. basin capacities
 2. retention times
 3. unit loadings
 4. filter area and proposed rates
 5. backwash rate
 6. chlorine contact time
 7. pipe hydraulics

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

☐ Modified

Permit No. 77-268R

Casper Water Treatment Expansion

(Name of Facility)

This permit hereby authorizes the applicant:

City of Casper

(Last) c/o Black & Veach (First) (Middle)
12075 East 45th Ave., Suite 333

(Street or P.O. Box)

Denver

Colorado 80239

(City)

(County)

(State)

to construct, install, or modify a Water Treatment Plant

facility located in the City of Casper

(Legal Description)

in the County of Natrona, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William R. O'Quinn

Administrator
Water Quality Division

Robert E. Lundin

Director
Wyoming Dept. of Environmental Quality

September 15, 1977

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: White Mountain Properties Commercial Area, Rock Springs, WY

ARCHITECT OR ENGINEER: Bush & Gudgeon, P.O. Box 1144, Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 77-269

REVIEWING ENGINEER: David W. Hill; Don Armstrong, P.E., William L. Garland, P.E.

DATE OF REVIEW: August 9, 1977

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS: 1) All plans and specifications must be signed or sealed by
and engineer registered in the State of Wyoming.

Sewer System

No comments at this time.

Water System

- 2) Water mains shall be laid at least 10 feet horizontally
from any sewer or storm sewer. The storm sewers must be
constructed of special material (i.e. - encased in concrete
or constructed of water main material) if this 10 foot
minimum cannot be met.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: White Mountain Properties, Commercial Area, Rock Springs, WY

ARCHITECT OR ENGINEER: Johnny L. Probasca, P.E. - Bush and Gudgeon, Inc.,
P.O. Box 1144, Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 77-269

REVIEWING ENGINEER: David W. Hill, Don Armstrong, P.E., William J. Garland, P.E.

DATE OF REVIEW: August 25, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1) Water mains must be laid at least ten feet from storm sewers whenever possible. If this criteria cannot be met the storm sewer must be encased or constructed of water line material. Please indicate horizontal distance between the water lines and storm sewer lines on Sheet 2 of 14. This sheet does not seem to agree with the detailed water-sewer line crossovers on sheet 13 of 14.

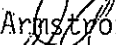
REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: White Mountain Properties Commercial Area, Rock Springs, WY

ARCHITECT OR ENGINEER: Johnny Probasco, P.E. - Bush & Gudgeon, P.O. Box 1144,
Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 77-269RR

REVIEWING ENGINEER: David W. Hill, Don  Armstrong, P.E., William L. Garland, P.E.

DATE OF REVIEW: October 5, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1) All water mains must be laid at least ten feet horizontally from any sewer line (including storm sewers). If this horizontal separation is not possible, the sewer line must be constructed of special materials (i.e. - encased in concrete or constructed of water line type material within this 10 foot distance). Please supply an addendum covering this.

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

Permit No. 77-269RRR

☐ Modified

White Mountain Properties

(Name of Facility)

This permit hereby authorizes the applicant:

Prudential Service Corporation

(Last)

(First)

(Middle)

115 South Main

(Street or P.O. Box)

Salt Lake City

(City)

(County)

Utah 84100

(State)

to construct, install, or modify a Water Lines, Sewer Lines, and Storm Sewer
facility located in Section 33, T19N, R105W
(Legal Description)

in the County of Sweetwater, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Gable

Administrator
Water Quality Division

Robert E. Lundin

Director
Wyoming Dept. of Environmental Quality

November 3, 1977

Date of Issuance

cc: Bush and Gudgeon, Inc., P.O. Box 1144, Rock Springs, WY 82901

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

March 11, 1982

Painter Estates
c/o Mrs. Garnet Cary
Upper Clark's Fork
Cody, WY 82414

RE: Expansion of Painter Estates Mobile
Home Park

Dear Mrs. Cary:

As requested by your letter, received March 1, 1982, I reviewed the proposed wastewater collection and disposal system authorized under our permit No. 77-270RR for Painter Estates.

I can not find the proposed expansion area as outlined in your letter and discussed during my visit, in the approved engineering plans. Although we do not object to utilizing your existing disposal facility, this proposed sewer expansion will still require the services of a professional engineer to submit the necessary plans to this office for formal approval. Referencing the plans with DEQ #77-270RR as much as possible should help expedite the review process.

I have been unable to reach you by phone to further explain our requirements. However, if further information is required, please do not hesitate to contact us.

Respectfully,

A handwritten signature in cursive script, reading "M. Robin Collins".

M. Robin Collins, P.E.
Northwest District Engineer

MRC:ch

cc: Tim Morrison, Park County Planner
DEQ/WQD Cheyenne
File (2)

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-270RR

Painter Estates (Garnet Cary Mobile Home Park)
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Cary</u> (Last)	<u>Garnet</u> (First)	<u></u> (Middle)
<u>P. O. Box 255</u> (Street or P.O. Box)		
<u>Cody</u> (City)	<u>Park</u> (County)	<u>Wyoming 82414</u> (State)

to construct, install, or modify a Waste Treatment and Water Supply
facility located in Section 4, T56N, R106W
(Legal Description)

in the County of Park, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Gales
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

June 14, 1978

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Hathaway Office Building
Cheyenne, Wyoming 82002

PROJECT: Garnet Cary Mobile Home Park
Section 33, T57N, R106W, Park County

ARCHITECT OR ENGINEER: Graham and Associates, ATTN: Lee Graham, P.E.,
P. O. Box 348, Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 77-270R

REVIEWING ENGINEER: Roy E. Prior, David W. Hill, William L. Garland, P.E.

DATE OF REVIEW: February 23, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS: DUE TO THE NUMBER OF COMMENTS, THIS CANNOT BE CONSIDERED A FINAL REVIEW.

WASTEWATER SYSTEM

- 1). A manhole should be installed at the end of the outfall line as close to the lagoon as possible. This manhole should have an invert at least six (6) inches above the maximum operating level of the lagoon.
- 2). The termination of the influent line should be near the center of the primary cell, i.e. not next to the bank.
- 3). Wyes Branches should be used rather than saddles.

WATER SYSTEM

WATER LINES

- 4). On page 1, it is indicated that polyethylene pipe will be used, yet on page 2 it is indicated that PVC pipe will be used. Which will be used?
- 5). Please indicate where all valves in the main line are.

WATER STORAGE TANK

- 6). A vent is needed. It shall project at least two (2) feet above the ground and end in a downward turning elbow with a screened end. Provide details.
- 7). Provide details of the termination of the overflow pipe.
- 8). The overflow pipe should be larger.
- 9). A drain is needed. Provide details.

PROJECT: Garnet Cary Mobile Home Park

WATER QUALITY REFERENCE NUMBER: 77-270R (CONT)

- 10). Please provide disinfection specifications for the water storage tank.
- 11). Can the entrance be locked?
- 12). What are the gaskets made out of? Are they FDA, NSF or EPA approved.
- 13). How is the water level in the tank controlled?

A & B

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Garnet Cary Mobile Home Park, Section 33, T57N, R106W

ARCHITECT OR ENGINEER: Lee Graham, P.E. - P.O. Box 348, Cody, WY 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 77-270

William L. Garland

REVIEWING ENGINEER: Jake Strohmman, William L. Garland, P.E.

DATE OF REVIEW: August 26, 1977

ACTION: CONSTRUCTION IS NOT AUTHORIZED

COMMENTS:

1. For 30 units the well would have to furnish over 65 gpm peak demand. The well is adequate at 11 gpm to meet daily supply demands but will not furnish peak demands. Therefore a storage tank is required. Send specifications. Furnish design information on water system to ensure a minimum of 20 psi under all conditions of flow.
2. An underground drain cannot be utilized on the water riser. Recommend a $\frac{1}{4}$ " air line with a valve being installed to blow water out of line when the line is not in use.
3. Manholes are required to have a 42 inch diameter minimum. A manhole is required on the West collection line where the cleanout is shown. A cleanout can be used on the East line provided the distance from the manhole does not exceed 150 ft. Send details and specifications for cleanout.
4. The water distribution systems have to be a complete loop or provide flushing hydrants at the ends of deadends (send specifications and details).
5. Pond shall be fenced and warning signs posted.
6. Send design information to ensure ponds are full retention (i.e. evaporation and percolation rates, flows, etc.)

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

Permit No. 77-271RRR

☐ Modified

Sweetwater Uranium Project

(Name of Facility)

This permit hereby authorizes the applicant:

Minerals Exploration Company

(Last)

(First)

(Middle)

P. O. Box 54945

(Street or P.O. Box)

Los Angeles

(City)

CA 90054

(County)

(State)

to construct, install, or modify a Tailings Pond and Barium Chloride Treatment

facility located in Section 14, 15, 21, T24N, R93W

(Legal Description)

in the County of Sweetwater, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Galand

Administrator
Water Quality Division

Robert E. Sundin

Director
Wyoming Dept. of Environmental Quality

May 12, 1978

Date of Issuance

cc: Dames & Moore, George C. Toland, P.E., 250 East Broadway, Suite 200,
Salt Lake City, Utah 84111

Minerals Exploration Company, P. O. Box 1500, Rawlins, Wyoming 82301

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Minerals Exploration Company, Sweetwater Uranium Project

ARCHITECT OR ENGINEER: George C. Toland, P.E. - Dames & Moore
Minerals Exploration Company, P.O. Box 7600, Los Angeles, CA 9000
Attention: Richard Salisbury

WATER QUALITY DIVISION REFERENCE NUMBER: 77-271

REVIEWING ENGINEER: David W. Hill, Don Armstrong, P.E., William L. Garland, P.E.

DATE OF REVIEW: September 14, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

BARIUM CHLORIDE TREATMENT

- 1) We need details of the barium chloride-flocculant feed equipment and mix tanks.
- 2) Details are needed of the effluent flow measuring equipment. Continuous flow monitoring must be utilized.

TAILINGS RETENTION BASIN

- 3) On page 11 of the design report, you state that the tailings pond is adequate for 11 years production of tailings and water. Yet the mill is to exist for 15 years. Please clear this up for us.
- 4) Please indicate the sources where the area evaporation-precipitation data was obtained.
- 5) We are concerned about the seepage from the tailings pond. However, we have no one in Water Quality who is an expert in groundwater hydrology. This Division will be satisfied when Land Quality Division reviews the information and has determined the rate to be satisfactory.
- 6) This Division would like to receive the results of the quarterly monitoring of the monitoring wells.
- 7) All storm water runoff from disturbed areas (mill area, mining area, waste storage area, ore stack pile, leach pad, etc.) must be controlled as required by your discharge permit. Please address.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Minerals Exploration Company - Sweetwater Uranium Project

ARCHITECT OR ENGINEER: George C. Toland, P.E. - Dames & Moore
Mineral Exploration Co., P. O. Box 7600, Los Angeles, CA 90000

WATER QUALITY DIVISION REFERENCE NUMBER: 77-271R

REVIEWING ENGINEER: Roy E. Prior, P.E. *Roy E. Prior*

DATE OF REVIEW: December 28, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

TAILINGS RETENTION BASIN

- 1). Due to the size of material allowed in zone 3, there should be a sand bedding under the PVC liner.
- 2). Please provide details of construction, design and operation of the discharge structures. Will the sand slide off of the sides and expose the liner? Will the sand be eroded by the discharge pipes?
- 3). The monitoring wells should have a minimum of four (4) inch casing to allow for pump installation.
- 4). The annular space above the water table should be sealed to the surface with an impervious material such as neat cement grout or concrete grout.
- 5). The basins should have an underdrain system to detect leaks in the liner.
- 6). We are requesting that a copy of the monitoring data be sent to the Water Quality Division.

cc: Minerals Exploration Company
Sweetwater Uranium Project
P. O. Box 1500
Rawlins, Wyoming 82301

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REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Hathaway Office Building
Cheyenne, Wyoming 82002

PROJECT: Minerals Exploration Company - Sweetwater Uranium Project
Sweetwater County

ARCHITECT OR ENGINEER: George C. Toland, P.E., Dames & Moore
c/o Minerals Exploration, P. O. Box 7600, Los Angeles, CA
90000

WATER QUALITY DIVISION REFERENCE NUMBER: 77-271RR

REVIEWING ENGINEER: Roy E. Prior - William L. Garland, P.E.

DATE OF REVIEW: March 15, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). From your visit of March 7, 1978 and delivery of a letter dated February 27, 1978 from Dames & Moore to Minerals Exploration Company, we understand the underdrain system for the tailings retention basin is being redesigned for re-submittal to Water Quality Division.
- 2). All plans and specifications must be signed by an engineer registered in the State of Wyoming.

cc: L. G. Dykers, General Manager
Minerals Exploration Company
Sweetwater Uranium Project
P. O. Box 1500
Rawlins, Wyoming 82301

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-272RR

Y-0 Tracts Water System
(Name of Facility)

This permit hereby authorizes the applicant:

Jirdon Industries, Inc.
(Last) (First) (Middle)

ATTN: Mr. Don Steen
(Street or P.O. Box)

Morrill Nebraska 69358
(City) (County) (State)

to construct, install, or modify a Public Water Supply & Distribution
facility located in Section 29 & 30, T24N, R67W
(Legal Description)

in the County of Platte, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Galarza
Administrator
Water Quality Division

Robert E. Jirdon
Director
Wyoming Dept. of Environmental Quality

January 12, 1978

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Y-0 Tracts, Proposed Water Line

ARCHITECT OR ENGINEER: K & H Engineering, P.O. Box 856, Wheatland, WY 82201

WATER QUALITY DIVISION REFERENCE NUMBER: 77-272

REVIEWING ENGINEER: Tom Mueller, William L. Garland, P.E.

DATE OF REVIEW: August 10, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
1. Insufficient information is given on the cross-connection to the Town of Wheatland. Please indicate exactly where the connection is located and what type of protection will be used to prevent backflow into the Town's system. Also, please supply a letter from the Town agreeing to the connection and to the use of water by the homes which will be served routinely by the 4-inch line.
 2. Inadequate information is given on the supply system to which this distribution line will be connected. Please supply the following information:
 - a) What are the anticipated yield of the well, and the condition of the well pump?
 - b) What are the condition and capacity of the cistern? Is the cistern large enough to supply water at fire flow for 2 hours? If not, fire hydrants should not be connected to the system. Is the cistern equipped with an overflow, drain, and locked access?
 - c) What is the condition and capacity of the cistern pump? Will it provide 20 psig to all portions of the system under all conditions of flow? Will it provide minimum fire flows? If not, fire hydrants shall not be connected to the system. What arrangements will be made for backup service in case of pump failure?

In light of the fact that this is a new public water supply being connected to a previously operating source and storage facility, an inspection may be required before the system is placed into operation.

Y-0 Tracts, Proposed Water Line

77-272

3. The pipe bedding specification is inadequate. The pipe shall be supported by undisturbed earth for at least one quarter of its perimeter (i.e., class D bedding is unacceptable.) What compaction is anticipated for backfill and over-excavated bedding?
4. The hydro static test pressure shall be specified.
5. Thrust blocks shall be provided at all bends, tees and dead ends. These should be indicated on the plans. Valve pads are recommended.
6. Please indicate bury depth of pipe (i.e. to prevent freezing.)
7. The associated plans for the Y-0 Tracts sewer system show that the sewers will also be located in the streets. Please indicate that a 10 foot separation will be maintained and provide a crossing specification.

NOTE: The AWWA Standards called out have all been revised since the dates noted. The best method of calling out such Standards is to refer to them "in the latest revision" rather than to a dated edition. It would also be helpful if the pipe specification were related directly to AWWA C-900.



Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

December 9, 1977

CERTIFIED

Mr. Don Steen
Jirdon Industries, Inc.
Morrill, Nebraska 69358

SUBJECT: Y-0 Tracts Water System (Ref. No. 77-272R)

Dear Mr. Steen:

This is in response to our phone conversation of October 25, 1977, and to a plan I received on November 29 from Mr. Gary Kephart. During our phone conversation, I requested that you, Mr. Kephart, Mr. Ken Kennedy and the project contractor meet and submit information to reconcile inconsistencies between the previous information I have received and the actual construction I witnessed at the Y-0 Tracts on October 17, 1977. Apparently the plan from Mr. Kephart was an attempt to satisfy this request.

Please take note of the following:

- 1) The plan I received from Mr. Kephart was not prepared by a Professional Engineer and as such cannot be accepted by this office for review or permit purposes. I have therefore returned it to him.
- 2) I have not received the other information I requested, namely, a) the actual specifications for the water system pumps, including head vs. flow charts, and b) drawings of the new pumphouse plumbing and layout.
- 3) The water line construction at Y-0 Tracts is in violation of the law, due to the fact that it took place prior to issuance of a permit. No action has been taken on the violation due to the good construction and the apparent cooperativeness of the owners. However, if no satisfactory reply has been received within 30 days of receipt of this letter, this matter will be referred to the Attorney General's Office for appropriate legal proceedings. Any further construction will also be referred to the Attorney General.

Mr. Don Steen
Jirdon Industries, Inc.
December 9, 1977
Page 2

If you have any questions, please contact me immediately.

Yours truly,

Tom Mueller

Tom Mueller
Environmental Engineer
Water Quality Division

TM/jo

cc: Gary Kephart, P.O. Box 814, Wheatland, WY 82201
Ken Kennedy, P.O. Box 856, Wheatland, WY 82201
Harold Anderson, Platte County Sanitarian, Goshen County Courthouse,
Torrington, WY 82240
Platte County File

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-273

Girl Scouts of America Tolman #1
(Name of Facility)

This permit hereby authorizes the applicant:

Girl Scouts of America

(Last) (First) (Middle)
c/o John W. Donnell and Associates
P.O. Box 13

(Street or P.O. Box)

Worland Wyoming 82401
(City) (County) (State)

to construct, install, or modify a Water System

facility located in East of Tensleep
(Legal Description)

in the County of Washakie, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William R. J. J. J.
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

September 14, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Girl Scouts of America Water System, Tolman #1, Washakie Co.

ARCHITECT OR ENGINEER: LaVerne Nelson, P.E.

WATER QUALITY DIVISION REFERENCE NUMBER: 77-273

William L. Garland

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.

DATE OF REVIEW: 8-29-77

ACTION: CONSTRUCTION AUTHORIZED (SEE COMMENTS)

COMMENTS:

1. Ensure adequate cap on end of 8" infiltration to facilitate back flushing.
2. Seal wet well with bituminous coatings on outside and bituminous sealant between joints.
3. Access manhole of storage tank shall be an extension (sealed watertight) from access hole to surface. Access hole should be 24 inches minimum.
4. Specify corrosion protection on outside of steel storage tank. Ensure bedding specifications to protect corrosion coating.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: KOA Campground - Gillette, WY

ARCHITECT OR ENGINEER: W. K. Duffey, Building Systems, Inc.
21 N. Meramec, Clayton, MO 63105

WATER QUALITY DIVISION REFERENCE NUMBER: 77-274RRRP

REVIEWING ENGINEER: Dan H. Kim, Jake Strohman, P.E.

DATE OF REVIEW: 9/12/78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The leach field is still too small. With a 20 min/in percolation rate and a 14,700 GPD flow, total leach field area required is 13,148 square feet. (each leach field size = 6,574 ft²)
With the trench width of 2 feet. Total length of leach field lines needed for each leach field is 3,300 ft. (your proposed leach field has only 1,900 ft of leach field lines).
2. Note that minimum distance between trenches is 6 feet (not between the pipes) in the leach field.
3. What is the average ground slope of the second leach field? Unless the area is leveled off up to 2% slope, 100 feet long leach field lines cannot be laid.
4. The wet well for the lift station shall have a minimum slope of 1 to 1 to the hopper bottom.
5. Which is the correct lift station pump description, QD470-11 or QD480-11? Please clarify. It should also be noted that neither type of pump is capable of passing spheres of at least 3 inches in diameter. (See Ten States Standards)
6. The gravity sewer pipe specifications are not consistent. Sheet 8 called for ASTM D3033 or D3034, whereas Sheet 11 called for AWWA C900. Please clarify.
7. Please provide 2" drop pipe material and specifications.
8. Chlorination of groundwater with a minimum of 30 minutes detention time before reaching consumers is required. The proposed chlorine room does not meet the requirements of Section 5.4.1 of the Ten State Standards. Chlorine gas feed and storage shall be enclosed and separated from other operating areas. The chlorine room shall also be provided with adequate ventilation, light, safety equipment, scale etc.

- * If chlorine compound (i.e. calcium hypochlorite, sodium hypochlorite, etc) is to be used, isolate feed room may not be required. However, separate tanks for mixing and feeding the calcium hypochlorite are needed. Provide details.
- 9. The proper plastic pipe installation specifications are UNI-Bell, UNI-48-3-77 or AWWA C603 for water pipe & ASTM D-2321 for sewer pipe. Please insert this in the specifications.
- 10. Specifications on water/sewer crossings do not meet the Chapter III of Wyoming Water Quality Rules & Regulations. When 18" vertical separation between the bottom of water line and the top of the sewer cannot be obtained, the sewer line shall be constructed of materials and joints that are equivalent to water main standards of construction and shall be pressure tested for water tightness. (See Sheet 8)
- 11. Due to the number of comments, this cannot be considered a final review.

8

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Hathaway Office Building
Cheyenne, Wyoming 82002

PROJECT: KOA Campground - Gillette Wyoming - Campbell County

ARCHITECT OR ENGINEER: W. K. Duffey, Building Systems, Inc., 21 N. Meramec,
Clayton, MO 63105

WATER QUALITY DIVISION REFERENCE NUMBER: 77-274RRR

REVIEWING ENGINEER: Roy E. Prior - William L. Garland, P.E.

DATE OF REVIEW: May 25, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). The dosing tank cannot be used as a septic tank.
- 2). The primary septic tank is too small.
- 3). The leach field is too small. With a 20 min/inch percolation rate and a 14,700 GPD flow, a minimum of 6562.5 square feet of leach field is needed.
- 4). Is the ground in the area of the leach field flat? Provide contour details.
- 5). The valves for the lift station must be located outside the wet well.
- 6). Provide manufacturers details of pumps and lift station. This should include pump curves, detail drawings, etc.
- 7). Show inlet details for the lift station.
- 8). The lift station should be protected against flooding, provide details.
- 9). Is there protection against clogging?
- 10). Is emergency power provided?
- 11). The entrance to the dosing tank should be protected against flooding
- 12). Is there a vent on the lift station?
- 13). The dosing tank shows valves in the wet well and outside the wet well, please clarify.

PAGE 2

PROJECT: KOA Campground - City of Gillette

COMMENTS (CONT)

- 14). Provide manufacturer's details of frost proof hydrant. An anti-pollution type must be used. A stop and waste type is not allowed.
- 15). You have indicated specifications that are normally associated with PVC water pipe for sewer pipe. Can service taps be made to the water type pipe? What will the pressure be in the force main?
- 16). The drain on the pressure tank house should go to a dry sump.
- 17). Provide details of well vent, well seal, specifications on drop pipe, well casing, surface grouting, etc.
- 18). What is the pressure rating of the storage tank?
- 19). The ability to chlorinate the water should be provided.
- 20). Provide installation specifications for water and sewer lines.
- 21). Provide specifications on water/sewer line crossings, i.e. see Chapter III, Section 15, Water Quality Division Rules and Regulations.
- 22). Provide specifications on horizontal separation of water and sewer lines.
- 23). Provide specifications to prevent excessive sidefill pressure and ovalation of sewer pipes.
- 24). Provide specifications for infiltration and exfiltration of the sewer lines.
- 25). Provide specifications for leakage test of water lines.
- 26). The AWWA C-900 standard applies to 4 inch through 12 inch PVC pipe, please provide specifications for the 2 inch pipe.
- 27). Due to the number of comments, this cannot be considered a final review.

cc: Mr. Jim Busby, P. O. Box 41, Gillette, Wyoming 82716

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

January 25, 1978

A. Glenn Aaron
President
Buildings Systems, Inc.
21 North Meramec
Clayton, Missouri 63105

REF: 77-274RR

Dear Mr. Aaron:

This letter is to confirm our telephone conversation of January 24, 1978. This office will not continue the review of the above referenced plans until additional information is received.

Sincerely,

A handwritten signature in cursive script, appearing to read "Roy E. Prior".

Roy E. Prior
Environmental Engineer
Water Quality Division

REP/do

cc

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: KOA Campground - Gillette, WY

ARCHITECT OR ENGINEER: W. K. Duffey, Buildings Systems, Inc., 21 N. Meramec,
Clayton, MO 63105

WATER QUALITY DIVISION REFERENCE NUMBER: 77-274R

REVIEWING ENGINEER: Roy E. Prior, William L. Garland, P.E.

DATE OF REVIEW: 11-8-77

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

A. Sewer system

1. Leach field and septic tank are too small.
2. Sewer sites should be 350 gal/day/each site.
3. Amount of sewage from dump stations is not provided.
4. Amount of sewage from laundry is not provided.
5. Non-sewer sites (upc) = 150 gal/site.
6. Dosing tank cannot be considered part of the septic tank.
7. There should be six (6) feet between leach field trenches.
8. There should be untreated building paper between earth.
9. Cover and gravel in leach field.
10. Specifications indicate 2 foot wide trench, detail shows 1.5 foot wide trench.
11. Does the fiberglass extend over the full length of the tile in the leach field?
12. Will the ends of the leach line be tied together?
13. Gravel for the leach field should be 1½ inch minimum to 2½ inch maximum.
14. What is the slope of the leach lines and leach field?

KOA Campground - Gillette, WY

77-274R

15. The lift station at the end of the septic tank shall be constructed per Ten State Standards.
16. Is there reinforcing in the septic tank, dosing tank and lift station?
17. Provide details and hydraulics on swimming dry well.
18. Provide details on the lift station at point A.
19. Provide details on cleanouts.
20. Provide specifications on manhole covers, concrete pipe, type of grout and installation of the manhole.
21. The manholes are too small.
22. The water riser at the dump station should be protected against freezing.
23. Provide ground slope of leach field area.

B. Water System

1. Your estimated water requirement of 50 gpd per site is too small. The water demand should be greater than the sewage discharge.
2. The system should be designed for peak flows and fire flows if fire protection is provided.
3. What is your peak demand and maximum average daily demand?
4. The design should include lawn watering, laundry, washwater at the dump station, swimming pool and fire flows.
5. Where are the water valves located?
6. Show how the water system is connected to the supply system.
7. Provide manufacturers data on well pump, Sepes-Air Hydropresson, and sanitary well seal.
8. Provide detail drawings of well construction as per 10 State Standards and WQD Chapter III Regulations.
9. The permanent casing for well shall project at least 12 inches above the concrete apron surface and at least 18 inches above final ground surface.
10. Discharge piping from the well shall be equipped with the items required by 10 State Standards.

KOA Campground - Gillette, WY

77-274R

11. Provide chemical and bacteriological analysis of the well.
12. What are the specifications for the pressure tank?
13. Pressure tank shall be completely housed to prevent freezing. The well house to be constructed should be shown on the plans.
14. The riser pipes should be protected against freezing.
15. The riser pipes shall be protected by a concrete apron or other approved method(s).
16. The waterlines are too small. They shall be two inches in diameter or larger. Fire protection will require a minimum of six inch lines.

C. General

1. Provide the following specifications:
 - a. Sewer pipe (both force main and gravity types).
 - b. All water pipes.
 - c. Installation and backfill for all type of pipes, manholes, valves, etc.
 - d. Water and sewerline crossings (ref. Chapter III Regulations, section 15).
 - e. Horizontal separation of water and sewer lines.
 - f. Excessive side pressures and ovalation of the sewer pipes.
 - g. Infiltration and exfiltration.
 - h. Leakage test for the water system.
 - i. Valves.
2. Complete and return the enclosed application for a permit to construct.

D. Due to the number of comments this cannot be considered a final review.

REP/jo

cc: Mr. Jim Busby, P.O. Box 41, Gillette, WY 82716
Campbell County Planning Office

Enclosure

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: KOA Campground - Gillette, WY

ARCHITECT OR ENGINEER: W. K. Duffey, Building Systems, Inc., 21 N. Meramec,
Clayton, MO 63105

WATER QUALITY DIVISION REFERENCE NUMBER: 77-274

REVIEWING ENGINEER: Dan H. Kim, Roy E. Prior, William L. Garland, P.E.

DATE OF REVIEW: September 7, 1977

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. Need to submit an application for a Permit to Construct.
2. You've submitted two different design data for sewage systems. Please clarify (one data shows total sewage flow of 5050 gpd and the other one indicates 5800 gpd).
3. Specifications on material, installation and testing of water and sewer pipe, shall be provided. Campbell County Codes are not approved by Wyoming Department of Environmental Quality. They shall meet 10 State Standards and our Chapter III Regulations.

SEWER SYSTEM

4. Details of lift station are required.
5. Where will the swimming pool water be discharged into?
6. Maximum distance between manholes for 6 inch line is 400 feet.
7. Manhole shall be installed at the ends of each line or cleanout if less than 150 feet.
8. The riser pipe shall terminate a minimum of 4 inches above natural ground, standing water or surface water runoff, whichever elevation is higher.
9. How is sewer riser connected to sewer line? i.e., Wye branch required.
10. Provide detail drawing of sewer riser located between manholes. They shall connect to the collection main at a maximum 45° bend in the direction of sewage flow. What kind of material is used for capping the riser?

11. Provide horizontal and vertical separation between water riser and sewer riser.
12. The water riser pipe should be protected by concrete apron or other approved method(s).
13. Sanitary Dump Station - show complete details. The following details should be submitted:
 - A. The minimum horizontal separating between water riser with hose bibbs and dump hole is 5 feet.
 - B. Show slope to drain on concrete slab.
 - C. Show wheel bumper wood.
 - D. Water riser shall be protected by concrete sleeve at ground surface.
 - E. Sign posts instructing how to use and warning unsafe water should be installed.
 - F. Backflow preventer or other cross connection control device shall be provided to water tower.
 - G. Stop and waste valve is not allowed for riser with hose bibbs either.
14. Septic tank and Leach field.
 - A. Please provide capacity of dosing pump based on 5800 gpd flow.
 - B. Provide dimensions of access manhole, backfilling specifications. Type and size of inlet and outlet pipe of septic tank, slope of final ten feet of sewer line preceding a septic tank, etc.
 - C. The capacity of septic tank is a little undersized for 5800 gpd flow. Dosing tank capacity should not be included in septic tank capacity.
 - D. Provide maximum size of gravel or crushed stone in leach trench.
 - E. Provide ground slope of proposed leach field site.
 - F. What is the known approximate groundwater level or impervious layer under the leach field?
 - G. Provide the distance between trenches.

- H. What is the type of distribution pipe in leach field?
- I. Two pumps in the dosing tank are recommended.
- J. Provide details on how system will alternate and change over piping.

15. Water System

- A. Your estimated water requirement of 50 gpd per site is quite undersized. In addition, well capacity shall equal or exceed the design maximum day demand. What is your peak demand? What about lawn watering and fire fighting requirements?
- B. Please show water valves. Does the sytem need air relief valves? Why is the entire water system not looped? Need correction or justifications.
- C. Provide manufacturer's data of well pump and "Sepes-Air Hydro pressor."
- D. Provide detail drawings of well construction as per 10 State Standards and State's Chapter III Regulations.
- E. Permanent casing for well shall project at least 12 inches above concrete apron surface and at least 18 inches above final ground surface.
- F. Discharge piping from well shall be equipped with provisions as per 10 State Standards.
- G. Is the size of drop pipe 5-inches or 3-inches?
- H. Chemical and biological analysis of well shall be provided.
- I. Does pressure tank meet ASME code requirements or an equivalent AWWA Standards for unfired pressure vessels?
- J. Pressure tank shall have an access manhole with 24 inches in diameter.
- K. Pressure tank should be completely housed to prevent freezing. Well house to be constructed should be shown in plans.

16. Due to the number of comments this cannot be considered a final review.

cc: Campbell Co, Planning

Mr. Jim Busby, P.O. Box 41, Gillette, WY 82716

PERMIT TO CONSTRUCT

☐ New
☐ Renewal
☒ Modified

Permit No. 77-275RRR

Hoy Mobile Home Park II
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Hoy</u> (Last)	<u>Philip</u> (First)	<u></u> (Middle)
<u>Box 1656</u> (Street or P.O. Box)		
<u>Gillette</u> (City)	<u>Campbell</u> (County)	<u>Wyoming 82716</u> (State)

to construct, install, or modify a Water Supply & Waste Treatment
facility located in Section 4, T50N, R72W
(Legal Description)

in the County of Campbell, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Gales
Administrator
Water Quality Division

Robert E. Larkin
Director
Wyoming Dept. of Environmental Quality

June 23, 1978
Date of Issuance

cc: M. Crawford, County Sanitarian
Plains Engineering, P. O. Box 2020, Gillette, WY 82716

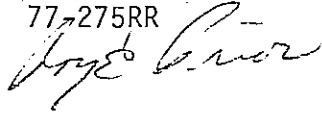
REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Hoy Mobile Home Park II, Water and Sewer Design
Campbell County

ARCHITECT OR ENGINEER: Plains Engineering
P. O. Box 2020 - Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 77-275RR

REVIEWING ENGINEER: Roy E. Prior, P.E. 

DATE OF REVIEW: January 12, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The facility will not be authorized until the pump house modifications are approved.

Enclosure:

cc: Phillip Hoy
P. O. Box 1656
Gillette, Wyoming 82716

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Hoy Mobile Home Park II

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 2020, Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 77-275

William L. Garland

REVIEWING ENGINEER: Roy E. Prior, William L. Garland, P.E.

DATE OF REVIEW: August 29, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The plans and specifications do not conform to the requirements outlined in Appendix A, Chapter III Regulations, Water Quality Division. Some of the requirements are as follows:

1. Water lines are too small.
2. The profiles of all sewer lines are not shown.
3. Provide a typical manhole detail.
4. Sewer risers are not per our regulations.
5. Deadend lines must have a blowoff or fire hydrant.
6. Provide a typical lot detail.
7. Fire hydrants should be an AWWA type.
8. Disinfection specifications are outdated.
9. Gate valve specifications are outdated.
10. Provide blocking details for valves.
11. What class of pipe is being used?
12. What % compaction is used for backfill and bedding?
13. Provide infiltration and exfiltration specifications.
14. Provide ovalation and side pressure specifications.

Hoy Mobile Home Park II

77-275

15. The calculations and plans submitted for the leach field are unclear. Preliminary calculations indicate the leach field is too small and will not meet our regulations.
16. The water supply system is not adequate. The peak flows are too small and fire flows were not considered.
17. What is municipal service class 160, plastic pipe?
18. One of the slopes in sewer line B does not agree with elevations given.
19. This cannot be considered a final review.

REP/jo

cc: Campbell County Planning Office, P.O. Box 540, Gillette, WY 82716

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: ~~Hoy Mobile Home Park~~

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 2020, Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: ~~77-275R~~

REVIEWING ENGINEER: Roy E. Prior, William L. Garland, P.E.

DATE OF REVIEW: 11-8-77

William L. Garland

ACTION: ~~NOT AUTHORIZED FOR CONSTRUCTION~~

COMMENTS:

1. The line from the storage tank is too small.
2. The letter dated October 14, 1977, indicated two booster pumps but only one is shown. Are the pressure tanks still in the system. The drawings of the piping in the pumphouse are not clear, please clarify. The valves should be the same size as the pipes they are on.
3. Disinfection specifications do not conform to AWWA C601.

REP/jo

cc: Phillip Hoy, P.O. Box 1656, Gillette, WY 82716

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

Permit No. 77-276

☐ Modified

Olympus Hills Subdivision

(Name of Facility)

This permit hereby authorizes the applicant:

Trembath

Fred

(Last)

(First)

(Middle)

845 Absorka

(Street or P.O. Box)

Sheridan

Sheridan

Wyoming 82801

(City)

(County)

(State)

to construct, install, or modify a Water Distribution and Sewage Collection
facility located in Section 34, T56N, R84W
(Legal Description)

in the County of Sheridan, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Malone
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

September 15, 1977

cc: TSP Wyoming, 532 Val Vista, Sheridan, WY 82801
Date of Issuance

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

☐ Modified

Permit No. 77-277

Westgate Park No. 2 & Vista West No. 3
(Name of Facility)

This permit hereby authorizes the applicant:

Barnard Realtors

(Last) (First) (Middle)
c/o Sigma Engineering
P.O. Box 4060

(Street or P.O. Box)

Casper Natrona Wyoming 82601
(City) (County) (State)

to construct, install, or modify a Water Extensions

facility located in Section 33,34,27, T33N, R80W
(Legal Description)

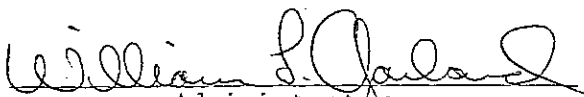
in the County of Natrona, in the State of


Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

NOTE: ENGINEER STATED IN A PHONE CALL ON 8-11-77 THAT A CURB STOP AND RISER
WOULD BE INSTALLED ON THE 4" DEAD END MAIN LOCATED ON SHEET 2 OF WESTGATE
PARK NO. 2.

Authorized by:


Administrator
Water Quality Division


Director
Wyoming Dept. of Environmental Quality

August 12, 1977

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank
Permit from Natrona County Health Department.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Divis Subdivision - Campbell County (Resubdivision of Sunburst
Sewer and Water District)

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 2020, Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 77-278

REVIEWING ENGINEER: Dan H. Kim, Roy E. Prior, P.E., William L. Garland, P.E.

DATE OF REVIEW: August 22, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

We are aware that this project includes only the installation of a 500 foot-long sewer line but it is still required to provide the following information:

1. Submit a letter of verification from Sunburst Sewer and Water District.
2. Should provide exfiltration specifications. Infiltration and exfiltration tests should be for each section of pipe. i.e. manhole to manhole.
3. Should provide alignment testing specifications and specifications concerning excessive sidefill pressures and ovalation of the pipe.
4. This cannot be considered a final review.

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

Permit No. 77-278R

☐ Modified

Divis Subdivision

(Name of Facility)

This permit hereby authorizes the applicant:

Divis

(Last)

Tom

(First)

L.

(Middle)

Box 1848

(Street or P.O. Box)

Gillette

(City)

Campbell

(County)

Wyoming 82716

(State)

to construct, install, or modify a Wastewater Collection

facility located in Section 3, T49N, R72W

(Legal Description)

in the County of Campbell, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Gable
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

September 22, 1977

Date of Issuance

cc: Plains Engineering, P.O. Box 2020, Gillette, WY 82716

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

☐ Modified

Permit No. 77-279

Century West 3rd and 4th Filing
(Name of Facility)

This permit hereby authorizes the applicant:

Century West, Inc.
(Last) (First) (Middle)
c/o C.S.S.A.
P.O. Box 943
(Street or P.O. Box)

Cheyenne Laramie Wyoming 82001
(City) (County) (State)

to construct, install, or modify a Water Distribution/Sewage Collection
facility located in Section 21, T14N, R66W
(Legal Description)

in the County of Laramie, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Garland
Administrator
Water Quality Division

Robert E. Anderson
Director
Wyoming Dept. of Environmental Quality

August 11, 1977
Date of Issuance

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

☐ Modified

Permit No. 77-280

United Parcel Service

(Name of Facility)

This permit hereby authorizes the applicant:

United Parcel Service

(Last)

(First)

(Middle)

7171 Mercy Road, Room 432

(Street or P.O. Box)

Omaha

Nebraska 68106

(City)

(County)

(State)

to construct, install, or modify a Sewage Disposal

facility located in Section 32, T34N, R79W

(Legal Description)

in the County of Natrona, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

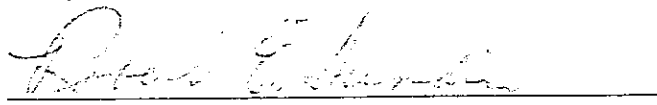
NOTE: OUTLET OF SEPTIC TANK SHOULD BE 3" LOWER THAN INLET.

cc: Western Engineers - Architects, Inc., 501 N. Sun Drive, Casper, WY 82601

Authorized by:



Administrator
Water Quality Division



Director
Wyoming Dept. of Environmental Quality

August 8, 1977

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

☐ Modified

Permit No. 77-281

Dry Creek Wastewater Line Extension

(Name of Facility)

This permit hereby authorizes the applicant:

City of Cheyenne

(Last)

(First)

(Middle)

c/o Banner and Associates, Inc.

P.O. Box 550

(Street or P.O. Box)

Laramie

(City)

Wyoming 82070

(State)

to construct, install, or modify a Wastewater Line Extension

facility located in Section 12, T14N, R67W


(Legal Description)

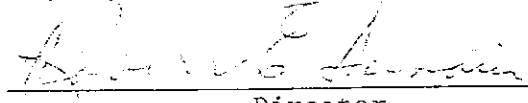
in the County of Laramie, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:


Administrator
Water Quality Division


Director
Wyoming Dept. of Environmental Quality

August 12, 1977

Date of Issuance



Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

November 25, 1977

Mr. Joe W. Zowadas ~~as~~ ^z
Route 2, Box 188
Sheridan, WY 82801

RE: Zowadas Custom Meat-Cutting Building
77-282

Dear Mr. Zowadas:

Your application for a permit to construct or modify a waste treatment facility for said location has been recently referred to me. I am extremely sorry for the delay in answering it.

We have reviewed your application but a permit cannot be issued to you at this time due to the following problem.

According to Wyoming Water Quality Rules and Regulations, Chapter III, Section 3, Subpart K, "Small Waste Facilities" means sewage systems, a disposal and treatment works for a single family house, or a single mobile home unit.

Therefore, state regulations require that the application for a permit to construct wastewater facilities for other than single family residence shall carry the seal or signature of the designing engineer, who is a registered engineer in the State of Wyoming. The application also includes 2 sets of all plans and specifications. We will process your application upon receipt of the aforementioned requirements.

If you have any further questions, please contact Mr. Tom Mueller in our office.

Sincerely,

Dan H. Kim
Environmental Engineer
Water Quality Division

DHK/sp

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Baggs, Water Storage Facilities, Baggs, WY

ARCHITECT OR ENGINEER: Barbara Scott, Consulting Engineer, 1709 Carey
Avenue, Cheyenne, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 77-283

REVIEWING ENGINEER: *Frank R. Harman*
Frank R. Harman, P.E., William L. Garland, P.E.

DATE OF REVIEW: August 11, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS: The water storage tank material shall meet with the requirements
of the AWWA Standards. In thickness this means a $\frac{1}{4}$ " thickness.
The proposed tank is only of 12 gauge thickness.

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

Permit No. 77-283R

☐ Modified

Town of Baggs Water Tank

(Name of Facility)

This permit hereby authorizes the applicant:

Town of Baggs

(Last) (First) (Middle)
c/o B. J. Scott, P.E.
523 W. 27th

(Street or P.O. Box)

Cheyenne Wyoming 82001
(City) (County) (State)

to construct, install, or modify a Water Storage Tank

facility located in Section 5, T12N, R91W

(Legal Description)

in the County of Carbon, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

NOTE: THIS PERMIT AUTHORIZES CONSTRUCTION OF THE TANK AND APPURTENANT PIPING ONLY, NOT THE TRANSMISSION LINE FROM THE WELL.

Authorized by:

William F. O'Connell
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

September 23, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-284

Nolan Commercial Sewage Disposal
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Nolan</u> (Last)	<u>James</u> (First)	<u></u> (Middle)
<u>P.O. Box 271</u> (Street or P.O. Box)		
<u>Mills</u> (City)	<u>Natrona</u> (County)	<u>Wyoming 82644</u> (State)

to construct, install, or modify a Sewage Disposal
facility located in Section 29, T34N, R79W
(Legal Description)

in the County of Natrona, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

cc: Nix Anderson
Western Engineers and Architects, Inc., 501 N. Sun Drive, Casper, WY 82601

Authorized by:

William P. Anderson
Administrator
Water Quality Division

Robert E. Anderson
Director
Wyoming Dept. of Environmental Quality

August 12, 1977
Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.



Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

August 12, 1977

77-285

Graham and Associates
1508 Stampede Avenue
Cody, Wyoming 82414

Attention: Lee Graham

RE: Aeration Equipment for Pahaska
Teepee

Dear Lee:

I have reviewed the above design information which you furnished and submit the following comments:

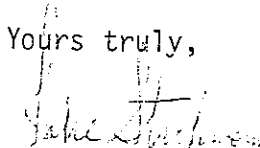
The aeration equipment appears to be adequate for an areated lagoon with BOD loading as estimated in the original design. Most areated lagoons in Wyoming require detention times around 15 days in the aeration cell due to temperature and elevation. For this reason, the detention time in the primary cell should be about 15 days.

An oxygen transfer rate of slightly less than 8% would theoretically meet the BOD demand of the wastewater with the existing equipment. The transfer efficiency should be checked out.

Pahaska Teepee should get the plans authorized shortly as the construction season is highly unpredictable in the fall.

Hope you are recuperating from your operation satisfactorily.

Yours truly,


Jake Strohman
Environmental Engineer
Water Quality Division

JS/jo
Enclosure

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-285R

Pahaska Teepee W/W Improvements

(Name of Facility)

This permit hereby authorizes the applicant:

Pahaska Company

(Last)

(First)

(Middle)

c/o Grahman and Associates

1508 Stampede Avenue

(Street or P.O. Box)

Cody

Park

Wyoming 82414

(City)

(County)

(State)

to construct, install, or modify a

Wastewater Improvements

facility located in Cody, WY

(Legal Description)

in the County of Park, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Galarza

Administrator
Water Quality Division

Robert E. Sundin

Director
Wyoming Dept. of Environmental Quality

September 14, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-286

Big Horn County Fairgrounds
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Donnell</u>	<u>John</u>	<u>W.</u>
(Last)	(First)	(Middle)
<u>P.O. Box 13</u>		
(Street or P.O. Box)		
<u>Worland</u>	<u>Wyoming</u>	<u>82401</u>
(City)	(County)	(State)

to construct, install, or modify a Sewage Disposal
facility located in Big Horn County Fairgrounds
(Legal Description)
in the County of Big Horn, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Gale
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

September 14, 1977
Date of Issuance

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-287

Cedar Ridge Storage Tank

(Name of Facility)

This permit hereby authorizes the applicant:

Eddie

McCormick

(Last)

(First)

(Middle)

c/o Tudor Engineering
450 S. Federal Blvd.

(Street or P.O. Box)

Riverton

Wyoming 82501

(City)

(County)

(State)

to construct, install, or modify a Storage Tank

facility located in the Town of Thermopolis

(Legal Description)

in the County of Hot Springs, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Janda

Administrator
Water Quality Division

Robert E. Sundin

Director
Wyoming Dept. of Environmental Quality

September 14, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☐ New
☐ Renewal
☒ Modified

Permit No. 77-287R

Cedar Ridge

(Name of Facility)

This permit hereby authorizes the applicant:

McCormick

Eddie

(Last)

(First)

(Middle)

c/o Tudor Engineering
450 S. Federal Blvd.

(Street or P.O. Box)

Riverton

Wyoming 82501

(City)

(County)

(State)

to construct, install, or modify a Storage Tank Foundation

facility located in Town of Thermopolis

(Legal Description)

in the County of Hot Springs, in the State of

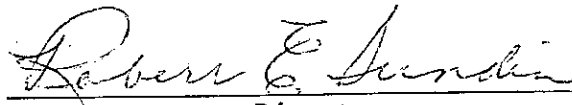
Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:



Administrator
Water Quality Division



Director
Wyoming Dept. of Environmental Quality

October 26, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

Permit No. 77-288

☐ Modified

City of Casper, Miracle Center PUD Area

(Name of Facility)

This permit hereby authorizes the applicant:

City of Casper

(Last) (First) (Middle)
c/o Casper Board of Public Utilities
136 West 8th Street

(Street or P.O. Box)

Casper Natrona Wyoming 82601

(City) (County) (State)

to construct, install, or modify a Water and Sewer Extensions

facility located in the City of Casper

(Legal Description)

in the County of Natrona, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Jala
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

September 14, 1977

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

☐ Modified

Permit No. 17-289

Eastgate II Addition

(Name of Facility)

This permit hereby authorizes the applicant:

City of Casper

(Last) c/o Casper Board of Public Utilities (First) (Middle)
136 W. 8th Street

(Street or P.O. Box)

Casper Natrona Wyoming 82601

(City)

(County)

(State)

to construct, install, or modify a

Sewer & Water Extension

the City of Casper
facility located in

(Legal Description)

in the County of Natrona, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

cc: Nix Anderson

Authorized by:

William J. Galar
Administrator
Water Quality Division

Robert E. Anderson
Director
Wyoming Dept. of Environmental Quality

September 1, 1977

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-290

Warner Sewage Disposal System
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Warner</u> (Last)	<u>Larry</u> (First)	<u>L.</u> (Middle)
<u>P.O. Box 3558</u> (Street or P.O. Box)		
<u>Cheyenne</u> (City)	<u>Laramie</u> (County)	<u>Wyoming 82001</u> (State)

to construct, install, or modify a Septic Tank
facility located in Section 22, T14N, R66W
(Legal Description)

in the County of Laramie, in the State of
Wyoming. This permit shall be effective for a period of 1 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William F. Oland
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

September 1, 1977

Date of Issuance

cc: Don Pack, City County Sanitarian, 315 W. 20th Street, Cheyenne, WY 82001

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-291

Banks Miniature Golf Course - Sewage Disposal
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Banks</u>	<u>Donald</u>	<u>T.</u>
(Last)	(First)	(Middle)
<u>Route #2</u>		
(Street or P.O. Box)		
<u>Douglas</u>	<u>Converse</u>	<u>Wyoming 82633</u>
(City)	(County)	(State)

to construct, install, or modify a Sewage Disposal
facility located in Section 7, T32N, R71W
(Legal Description)

in the County of Converse, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Gland
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

September 14, 1977

Date of Issuance



Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 1, 1977

Mr. John W. Alkire
RFD 2, Box 259
Laramie, Wyoming 82070

SUBJECT: Application to Construct Wastewater
Facilities Ref. No. 77-292

Dear Mr. Alkire:

We have received the subject application, but cannot act on it at this time. As shown on the Plan Sheet, the proposed facility is a mobile home park. Other information in the application indicates that the facility will not be built for individual homes on individual lots. As such, the facility applied for does not constitute a "Small Wastewater System" but rather a commercial facility.

According to our regulations, such wastewater facilities must be designed by a professional engineer and complete plans and specifications must be submitted with the application. We will proceed with your application when we receive the necessary plans and specifications.

Yours truly,

Tom Mueller

Tom Mueller
Environmental Engineer
Water Quality Division

TM/jo

PERMIT TO CONSTRUCT

☐ New
☐ Renewal
☒ Modified

Permit No. 77-293
REF. 76-357R

Westridge Second Extension
(Name of Facility)

This permit hereby authorizes the applicant:

Wenger Robert
(Last) (First) (Middle)


Savageton Route
(Street or P.O. Box)

Gillette Campbell Wyoming 82716
(City) (County) (State)

to construct, install, or modify a Water Distribution and Supply
facility located in Section 37, T50N, R72W
(Legal Description)

in the County of Campbell, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:


Administrator
Water Quality Division


Director
Wyoming Dept. of Environmental Quality

August 15, 1977

Date of Issuance

cc: Plains Engineering, P.O. Box 2020, Gillette, WY 82716

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: V-2 Mine Fourth Settling Pond

ARCHITECT OR ENGINEER: Energy Development Company, P.O. Box 36, Hanna,
Wyoming 82327

WATER QUALITY DIVISION REFERENCE NUMBER: 77-294

William L. Garland

REVIEWING ENGINEER: Tom Mueller, William L. Garland, P.E.

DATE OF REVIEW: 8-23-77

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

COMMENTS:

1. The plans must carry the signature of a professional engineer registered to practice in Wyoming.
2. A cross section of the new pond dike shall be submitted.
3. The dike will be along Big Ditch. What erosion protection will be necessary?
4. There appears to be a cross connection between the make-up water from the pond (MW) and the existing well house. How will the well be protected from backflow?
5. Will any new or different waste be pumped to settling pond #1 through the Pond Return Water (PRW) line? If so, indicate its source, quantity, and waste characteristics.

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-294R

V-2 Mine Fourth Settling Pond

(Name of Facility)

This permit hereby authorizes the applicant:

Energy Development Company

(Last) (First) (Middle)
c/o Don Hartley
P.O. Box 36

(Street or P.O. Box)

Hanna Carbon Wyoming 82327
(City) (County) (State)

to construct, install, or modify a Wastewater Treatment Pond

facility located in Section 23, T22N, R82W
(Legal Description)

in the County of Carbon, in the State of

Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William S. Gland
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

September 22, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☒ New
☐ Renewal
☐ Modified

Permit No. 77-295RRR

Rivers West Phase III
(Name of Facility)

This permit hereby authorizes the applicant:

Radix, Inc.

(Last)

(First)

(Middle)

Suite 230 - Western Resources Building

(Street or P.O. Box)

Casper

(City)

Natrona

(County)

Wyoming 82601

(State)

to construct, install, or modify a Water Distribution, Sewage Collection
facility located in Section 15, T33N, R80W
(Legal Description)

in the County of Natrona, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

NOTE: Sewage loading to the Rivers West Treatment Plant from Phase III is not to exceed the rated plant capacity unless adequate excess capacity is demonstrated, or additional treatment capacity is provided, as agreed to by Radix and DEQ-WQD April 18, 1978.

Authorized by:

William L. Galarza
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

May 17, 1978

Date of Issuance

cc: Nix Anderson - County Sanitarian
The Engineers, 644 West 14th, Casper, Wyoming 82601

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Hathaway Office Building
Cheyenne, Wyoming 82002

PROJECT: River West Estates, Phase III - Water Distribution System,
Natrona County

ARCHITECT OR ENGINEER: Fluid Systems, Inc., P. O. Box 12190, El Paso,
Texas 79912

WATER QUALITY DIVISION REFERENCE NUMBER: 77-295RR

REVIEWING ENGINEER: ^{JM} Tom Mueller - William L. Garland, P.E.

DATE OF REVIEW: March 29, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

SEWER SYSTEM

- 1). No infiltration specifications is included. Infiltration must be limited to 200 gal/in/mile/day, and the test method must be described.
- 2). Lamping specifications are required.
- 3). A drop manhole detail is required.
- 4). A service tap detail is required.
- 5). The sewer stretch between manholes 13 and 14 is greater than 400 feet. An additional manhole will be required.
- 6). Manhole 12 shall be constructed as a drop manhole.

WATER SYSTEM

Two additional water valves shall be placed on the main in Center Village Drive, one on either side of Indian Springs Drive. This will facilitate water service to Bailey Place, Henderson Creek Place, Indian Springs Drive and Kinzie Creek Place, in the event of a main break along Center Village Drive.

GENERAL

- 1). Sewer lines along Center Village Drive as far as Indian Springs Drive, along all of Indian Springs Drive, and along the southern part of Cherokee Lane, were authorized by a previous permit (76-45). The present plans marked "as built", show somewhat different sewer elevations and slopes. Which drawings are actually correct.

PROJECT: River West Estates, Phase III - Water Distribution System,
Natrona County

WATER QUALITY REFERENCE NUMBER: 77-295RR

GENERAL (CONT)

- 2). As mentioned on previous plan reviews, no further construction on Rivers West will be authorized until an adequate compliance schedule has been obtained for the installation of standby power at the sewage treatment plant.

cc: T. W. Pittman
1145 South Walcott
Casper, Wyoming 82601

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Rivers West Estates, Phase III

ARCHITECT OR ENGINEER: James Bradley, P.E. - Fluid Systems, Inc., P.O. Box 12190,
El Paso, Texas 79912

WATER QUALITY DIVISION REFERENCE NUMBER: 77-295

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.

William L. Garland

DATE OF REVIEW: 9-26-77

ACTION: CONSTRUCTION IS NOT AUTHORIZED

COMMENTS:

1. Indicate minimum size and bearing area of thrust blocks.
2. Indicate ten (10) foot horizontal separation between water and sewer lines.
3. Submit basic design information for water and sewer.
4. Where are sewer specifications?
5. Indicate which lots will be developed as sewage disposal facilities dictate that only 412 lots can be developed.



Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

November 29, 1977

T. W. Pittman
1145 S. Wolcott
Casper, Wyoming 82601

Dear Mr. Pittman:

This office has received plans and specifications for the Phase III extension of Rivers West Estates.

The original sewage system received (76-128) did not have many of the street sections laid out for sewer. The plans which you submitted last week are a complete layout for Phase III. The Phase III water extension application is complete (77-295R).

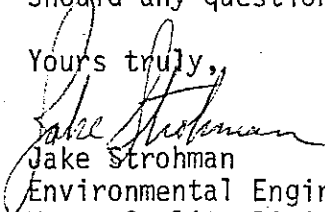
The sewage treatment plant is authorized for 412 units. The complete Rivers West has 375 lots while Green Valley Mobile Home Park has 102 lots.

Before construction will be authorized on Phase III, the following conditions must be met:

1. Standby power to the lift station and sewage treatment plant must be installed per the construction permit from this office.
2. Indicate which 65 lots in Phase III will not be developed.

Should any questions arise, do not hesitate to contact us.

Yours truly,


Jake Strohman
Environmental Engineer
Water Quality Division

JS/jo

cc: Brooks Water and Sewer District, Box 2080, Casper, Wyoming 82601
William L. Garland, Administrator, Water Quality Division

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Faith Lutheran Church, NE $\frac{1}{4}$, SE $\frac{1}{4}$, Section 24, T33N, R100W,
Lander, Wyoming, Fremont County

ARCHITECT OR ENGINEER: Kenneth E. Temme, P.E., Chen and Associates, 1924 East
First Street, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 77-297

REVIEWING ENGINEER: David W. Hill, Don Armstrong, P.E., William L. Garland, P.E.

DATE OF REVIEW: August 26, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1) Two copies of all plans and specifications are needed. One set shall be returned to you upon issuance of a permit.
- 2) Please indicate the depth to the seasonal high groundwater table in the evapotranspiration bed area. If the distance from the bottom of the evapotranspiration bed to the groundwater is more than four feet, a liner will not be required.
- 3) Our Chapter III Rules and Regulations, 1976, specifies that the gravel used in evapotranspiration beds must be 1 $\frac{1}{2}$ inch to 2 $\frac{1}{2}$ inches in size. Is there a reason for using the smaller sized gravel?
- 4) The sand in evapotranspiration beds is essential for proper capillary action. Our Chapter III Rules and Regulations, 1976 specifies one foot of gravel overlaid by two feet of sand. However, the two feet of gravel specified by your firm is satisfactory if you feel it will work.
- 5) Please submit specifications for leveling of the sand layer. The top of the sand must be level for proper operation. Mounding can be accomplished by using top soil and vegetation.
- 6) Please discuss the type of vegetation (grasses and/or shrubs) to be planted in the evapotranspiration beds. Also state the depth of the top soil level.
- 7) Discuss runoff from the site, and from the evapotranspiration bed area.

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

Permit No. 77-297R

☐ Modified

Faith Lutheran Church

(Name of Facility)

This permit hereby authorizes the applicant:

Barber	David	J. (Pastor)
(Last)	(First)	(Middle)

1090 McDougall


(Street or P.O. Box)

Lander	Fremont	Wyoming 82520
(City)	(County)	(State)

to construct, install, or modify a Septic Tank - Evapotranspiration Bed
facility located in Section 24, T33N, R100W
(Legal Description)

in the County of Fremont, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:


Administrator
Water Quality Division


Director
Wyoming Dept. of Environmental Quality

October 24, 1977

Date of Issuance

cc: Chen and Associates, 1924 East First Street, Attention: Kenneth E.
Temme, P.E., Casper, WY 82601

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Peris View Addition, Rawlins, Wyoming

ARCHITECT OR ENGINEER: R & E Engineering, c/o James H. Carney, City Engineer,
P.O. Box 953, Rawlins, Wyoming 82301

WATER QUALITY DIVISION REFERENCE NUMBER: 77-299

REVIEWING ENGINEER: Tom Mueller, William L. Garland, P.E. *W. L. Garland*

DATE OF REVIEW: 8-25-77

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

COMMENTS:

1. Water pipe material and the appropriate AWWA standard shall be specified. Fire hydrants and gate valves shall also meet AWWA standards.
2. VCP sewers shall meet ASTM standard C-700.
3. Infiltration/Exfiltration shall be specified as 200 gallons/inch-mile-day maximum for sewers.
4. Water mains shall be pressure and leak tested, and maximum allowable leakage shall be specified.
5. New water mains shall be disinfected according to AWWA standard C-601.
6. Compaction to be achieved during backfill of both water and sewer mains shall be specified.
7. Service tap details shall be provided for both water and sewer.
8. Specifications shall be provided for protection of water mains at all water/sewer crossings.
9. Indicate the reason for installation of 8" water mains, to be supplied by 6" mains. This is generally poor practice and will not be allowed without good reason.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Big Eagle Mine, Equipment Maintenance Shop, SE 1/4, Section 2 & 11,
T27N, R92W

ARCHITECT OR ENGINEER: Bradley R. Mortensen, P.E., Lucky Mc Uranium Corp.,
Big Eagle Mine, P.O. Box 450,
Jeffrey City, Wyoming 82310

WATER QUALITY DIVISION REFERENCE NUMBER: 77-300

REVIEWING ENGINEER: David W. Hill, Don Armstrong, P.E., William L. Garland, P.E.

DATE OF REVIEW: August 23, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1) All plans and specifications must be signed or sealed by an engineer registered in the State of Wyoming.

SANITARY WASTEWATER SYSTEM

- 2) Six inch lines must be used from the building to the septic tank.
- 3) The leach field must use no smaller than four inch lines.
- 4) The leach line ends must be connected.
- 5) Supply complete septic tank details.
- 6) Supply sewer line slopes.
- 7) Sewer pipe specifications are needed.
- 8) A "Permit to Construct" is also needed for the lube bay drain sump and wash house wastewater disposal systems. Complete plans and specifications are needed.